KRISHNAKUMAR VALLIAPPAN

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SUMMARY

Aspiring **Software Developer** transitioning from a strong background in Data Analytics. Over 2+ years of experience building automation tools and interactive web applications using Python and JavaScript.

TECHNICAL SKILLS

Programming Languages	Python, SQL, JavaScript, TypeScript, Bash
Web Tools & Frameworks	ReactJS, VueJS, NodeJS, NextJs, ExpressJS, Django, Flask, Bootstrap, TailwindCSS, shadcn/ui, Selenium, Framer Motion
Version Control	GIT, Jira
Cloud	Azure, AWS S3
Database	MySQL, MongoDB
Containerization	Docker, Containers
Competencies	REST API, Data Migration, Data Decryption and Encryption, Socket Programming, Automation, Parallel Programming
Operating System	MacOS, Windows, Linux

PROJECTS

LinkedIn Job Application Automation — *Python, Selenium, OpenAI, Notion API*

- Developed an AI-powered automation system for job applications, streamlining job search, application tracking, and document generation.
- Scraped LinkedIn job listings and synchronized data with **Notion**, enhancing efficiency in the job application process.
- Earned **5 stars** and **4 forks** on GitHub, reflecting strong community interest and engagement.
- Leveraged **Python** and **Selenium** for web scraping and automation; integrated **OpenAI** for AI capabilities; utilized the **Notion API** for seamless data synchronization.

Interactive Digital Portfolio — *Next.js, TypeScript, Tailwind CSS, Framer Motion, shadcn-ui*

- Developed a responsive personal portfolio using **Next.js** and **TypeScript**, showcasing advanced front-end development skills.
- Enhanced user experience with smooth animations via **Framer Motion**; deployed on Vercel at krishnakumar.dev.
- Optimized performance and SEO through server-side rendering (SSR); project received 4 forks on GitHub.
- Implemented custom UI components using shadcn-ui, demonstrating proficiency in leveraging modern design systems for efficient development.

Notion TickTick Two-Way Sync Integration — *Python, Selenium, OpenAI, Notion API*

- Created a **Python** application to enable seamless two-way synchronization between Notion and TickTick.
- Streamlined task management by integrating platforms into a unified workflow, enhancing productivity.
- Demonstrated proficiency in Python scripting, automation, and API integration.
- Utilized **OpenAI**'s language models to intelligently categorize and tag tasks, improving organization and searchability across both platforms.

Real-Time Data Visualization Dashboard — *React, React-chartjs-2, Flask*

- Developed a real-time data visualization dashboard during a hackathon hosted by the National Bank of Canada at Concordia University.
- Utilized React and React-chartjs-2 for dynamic charts; implemented a **Flask** backend for data processing and real-time API endpoints.
- Collaborated under tight deadlines, showcasing teamwork and problem-solving skills.
- Incorporated responsive design principles to ensure optimal viewing experience across various devices, enhancing the dashboard's accessibility and usability.

EXPERIENCE

Teaching Assistant — September 2023 - December 2023
Concordia University

- Conducted statistical analysis, enabling students to make precise data-driven decisions with confidence.
- Implemented practical exercises and real-world case studies to enhance students' data interpretation skills.

Junior Data Analyst — April 2020 – July 2022
IA Flow Elements

- Streamlined the software development process by implementing **Agile** methodologies, resulting in a **19.17%** reduction in project delivery time.
- Developed automation scripts in **Python** to streamline data extraction, processing, and reporting, reducing manual effort by **18.51%**.
- Implemented **machine learning** models for sales forecasting using Python, improving prediction accuracy by **15.67%**.
- Created interactive web dashboards using **JavaScript** and **Power BI**, enhancing data accessibility for stakeholders.
- Optimized **SQL** queries and improved database interactions, boosting data retrieval efficiency by **27.33%**.
- Collaborated with cross-functional teams to design and implement software solutions addressing business needs.
- Monitored production efficiency using **VBA**-powered Excel dashboards, enhancing overall productivity by **11.5%** and streamlining performance reporting for production department.

EDUCATION

Master of Engineering
Concordia University, Montreal, Quebec — *2022 - 2024*